

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09289028 A
(43) Date of publication of application: 04.11.1997

(51) Int. Cl H01M 8/02
H01M 8/10, H01M 8/24

(21) Application number: 08102460
(22) Date of filing: 24.04.1996

(71) Applicant: TANAKA KIKINZOKU KOGYO KK
(72) Inventor: YANAGIHARA HIROSHI

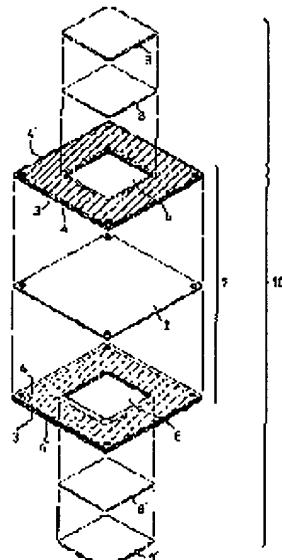
(54) ELECTROLYTE FILM, GAS SEAL
STRUCTURE, AND STACK FOR SOLID
POLYMER ELECTROLYTE TYPE FUEL CELL

COPYRIGHT: (C)1997,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To ensure and simplify a gas seal, to enable reducing the numbers of part items and assembly man-hours and increasing operating efficiency, and to increase the dimensional accuracy of machining by enabling integration that eliminates the need for thermocompression.

SOLUTION: This electrolyte film comprises a solid polymer electrolyte film to one or both sides of which a glued polymer sheet 3 having an opening in its center is bonded, with the opening 6 in the glued polymer sheet 3 located inside the periphery of an electrode consisting of catalyst layers 8, 8 and a porous substrate 9. A gas seal structure comprises the electrolyte film or a gas seal structure with a lamination of carbon plates bonded to each side by an adhesive 4 or a sheet of adhesive 4'. The stack is laminated, and integrated together by the gas seal structure for a solid polymer electrolyte type fuel cell.



BEST AVAILABLE COPY